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Great Lakes
CHEMICAL CORPORATION

31 March 2005

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Attention: TSCA Section 8(e) Coordinator

RE: Submission of A 96-Hour Flow-through Acute Toxicity Test with the Fathead Minnow (*Pimephales promelas*) via an OECD 203 Guideline Study on Dibromostyrene (DBS); CAS No.: 125904-11-2. (When responding, please refer to JAB-05-013).

Dear Sir:

Great Lakes Chemical Corporation (GLCC) submits this letter of substantial risk notification in accordance with Section 8(e) of the Toxic Substances Control Act, 15 USC 2607(e), and the Environmental Protection Agency's "Statement of Interpretation and Enforcement Policy" thereof 43 FR 1110, 35 seq., March 16,1978. The notification is in regards to a final report received from the performing laboratory on March 22, 2005.

The species of fish used for this study was exposed to a negative control (dilution water), solvent control (0.1 ml/L dimethyl formamide) or a geometric series of five test concentrations of the test material. A total of 20 fish per each treatment and control group were used. Nominal test concentrations selected were 0.63, 1.3, 2.5, 5.0, and 10 mg/L. Measured test concentrations were determined from each treatment and control group at 0, 48, and 96 hours and averaged, but the mean measured values calculated were consistently lower than the recoveries recorded. Thus, the LC_{50} values reported are based on nominal concentrations.

Daily observations of mortality, immobility and other signs of toxicity were noted throughout the study. Cumulative percent mortality observed in the treatment groups was used to determine the LC_{50} values at 24, 48, 72, and 96 hours. Under the conditions in which this study was run, the calculated 24, 48, 72, and 96 hour LC_{50} values are >10, 7.4, 7.4 and 6.2 mg/L, respectively. The no mortality concentration and NOEC were reported to be 2.5 mg/L and 0.63 mg/L, respectively.

Sincerely,

8EHQ-05-16008

John A. Biesemeier
Manager, Regulatory Toxicology
Regulatory Affairs

JAB/jab

8E0500002114

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